

Abstract of the Disclosure

A method and a circuit arrangement are disclosed for generating an auxiliary symbol (S_h) when a digital signal (s) locked to a quadrature signal pair (I, Q) is received. The method comprises the following steps. According to predetermined positions (S_m, n) of the digital signal (s) in the plane determined by the quadrature signal pair (I, Q), nominal radii (R_s) and range limits, particularly radius limits (R_g), are determined. By means of a sampling device (10; 14) controlled by a symbol sampling clock (t_s), preliminary symbols (S) are formed from the digital signal (s), and their polar coordinates (R, α) are determined. From the polar coordinates (R, α), particularly from the radius component (R), an associated nominal radius (R_{si}) is determined which, together with the angle component (α) of the preliminary symbol (S), determines the polar coordinates of the auxiliary symbol (S_h) in the plane of the quadrature signal pair (I, Q). This auxiliary symbol (S_h) replaces the decision symbols (S_e) in at least one decision-feedback controller (11, 13, 14; 40, 13, 14) during the adjustment phase.

(For the abstract: Fig. 4)